

CH. 8 WAVES-EXTENSIONS MENU

(Complete one of the following)

<p>Challenge Investigate the behavior of surface waves near the seashore and make posters showing what you find.</p>	<p>Wanted Poster-Scientist(Visit the following website-Use one of the following scientists that have contributed to the study of sound waves: Alexander Graham Bell, Emile Berliner, Thomas A. Edison, Hermann Helmholtz, Ernst Mach, or Heinrich Hertz http://www.shellyssciencepot.com/ScientistWantedPoster/ProjectLayout.htm</p>	<p>Word Origin In a presentation to the class (medium of your choice), explain the origin of the word <i>hertz</i> and why it is used to describe frequency.</p>
<p>Research Research one of the medical uses of ultrasound. Present your findings to the class in whatever format you choose.</p>	<p style="text-align: center;">STUDENT CHOICE</p>	<p>Perform Perform a song of your choice using test tubes with different amounts of water. The musician makes sounds by tapping the test tubes gently with a glass stirring rod. Before you play your song, explain to the class the differences between the pitches produced.</p>
<p>Write a TV Script Work as a pair to write a short script for a science special on electromagnetic waves. You should explain some of the ways we use microwaves, gamma rays, radio waves, and so on.</p>	<p>Play a Matching Game Work in pairs to play a matching game using the chapter's vocabulary words. You should write each term on one set of index cards and the definitions on a separate set. To play the game, students should turn the cards face down and match each term to its definition. If a student can't find a match, he or she should turn the cards back over. Then it's the next student's turn. Groups should continue to play until all the matches have been made.</p>	<p>Design an Invention Work as a pair to design an invention that uses two or three different kinds of electromagnetic waves. For example, you might design a microwave oven that also broadcasts television programs. Create an illustration of your invention along with a brief explanation of what it is and how it uses electromagnetic waves.</p>